

In re application of:

SETTE et al.

Appl. No.: 09/894,018

Filed: June 27, 2001

For:

Method and System for

Optimizing Minigenes and Peptides Encoded Thereby Confirmation No.: 7107

Art Unit:

1631

Examiner:

Ardin H. Marschel

Atty. Docket: 2060.0320003/EKS/PAC

First Supplemental Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Sir:

Mail Stop Amendment

Listed on accompanying Forms PTO/SB/08a and PTO/SB/08b are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of all U.S. Patents and U.S. Patent Application Publications, cited on Form PTO/SB/08a as documents US1-US15, are not provided in accordance with 37 C.F.R. § 1.98(a)(2).

Copies of documents NPL69-NPL72 cited on Form PTO/SB/08b are not provided in accordance with the U.S. Patent and Trademark Office OG notice of October 19, 2004, which states: "the requirement in 37 C.F.R. § 1.98(a)(2)(iii) for a legible copy of the specification, including the claims, and drawings of each cited pending U.S. patent application (or portion of the application which caused it to be listed) is sua sponte waived where the cited pending application is stored in the USPTO's IFW system."

The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to this application now or upon issuance of the present application as a patent. The

Examiner is respectfully requested to consider the cited application and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Forms PTO/SB/08a and PTO/SB/08b based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Forms PTO/SB/08a and PTO/SB/08b, and indicate in the official file wrapper of this patent application that the documents have been considered. The U.S. Patent and Trademark Office is

hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

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Date: 9/9/3) 1100 New York Avenue, N.W. Washington, D.C. 20005-3934

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Substitute for form 14400000 Complete if Known Application Number 09/894,018 FIRST SUPPLEMENTAL June 27, 2001 Filing Date INFORMATION DISCLOSURE First Named Inventor **SETTE** Art Unit 1631 STATEMENT BY APPLICANT Examiner Name Ardin H. Marschel 2 Attorney Docket Number 2060.0320003/EKS/PAC Sheet of

			U.S. PATENT D	OCUMENTS		
Examiner Cite Initials No. 1		Document Number Number-Kind Code ^{2 (IF Known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Relevant Pa Columns, Li	
	USI	5,200,320	04/06/1993	Sette et al.		
	US2	5,503,829	04/02/1996	Ladant et al.		
	US3	5,662,907	09/02/1997	Kubo et al.		
	US4	5,846,827	12/08/1998	Celis et al.		
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			FOREIGN PATENT			
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Relevant Pages, Columns, Lines	Té
initials	FP1	EP 0 044 710 A1	01/27/1982	Scripps Clinic & Research Foundation	Columns, Ellies	1
	FP2	EP 0 226 513 A1	06/24/1987	Institut Pasteur		Abs
	FP3	WO 92/02543 A1	02/20/1992	Cytel Corp. et al.		
	FP4	WO 92/12996 A2	08/06/1992	Immune Response Corp.		
	FP5	WO 92/21033 A1	11/26/1992	Max-Planck-Gesellschaft		Abs
-	FP6	WO 93/03764 A1	03/04/1993	Cytel Corp.		
	FP7	WO 94/03205 A1	02/17/1994	Cytel Corp.		
	FP8	WO 94/11738 A1	05/26/1994	Max-Planck-Gesellschaft		Abs
	FP9	WO 94/20127 A1	09/15/1994	Cytel Corp.		
	FP10	WO 95/04817 A1	02/16/1995	Cytel Corp.		
	FP11	WO 95/22317 A1	08/24/1995	Cytel Corp.		

Examiner	Date	
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute f	or form	1449/PT)		Complete if Known		
					Application Number	09/894,018	
FI	RST	SUPP.	LEMEN'	TAL	Filing Date	June 27, 2001	
INFO	RMA	TION	DISCL	OSURE	First Named Inventor	SETTE	
STATEMENT BY APPLICANT			ICANT	Art Unit	1631		
					Examiner Name	Ardin H. Marschel	
Sheet	2	of	2		Attorney Docket Number	2060.0320003/EKS/PAC	

	U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (If Known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Relevant Pages, Columns, Lines			

			FOREIGN PATENT D	OCUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Relevant Pages, Columns, Lines	T ⁶
	FP12	WO 96/03140 A1	02/08/1996	Cytel Corp.		
	FP13	WO 97/33602 A1	09/18/1997	Cytel Corp.		
	FP14	WO 97/34621 A1	09/25/1997	Cytel Corp.		
	FP15	WO 98/32456 A1	07/30/1998	Epimmune Inc.		
	FP16	WO 99/45954 A1	09/16/1999	Epimmune Inc.		
	FP17	WO 99/58658 A2	11/18/1999	Epimmune Inc.		
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	FP20	WO 02/20616	03/14/2002	Epimmune Inc.		
	FP21	WO 02/061435 A2	08/08/2002	Epimmune Inc.		
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		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author, title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher	T ²
	NPL1	Aichele, P., et al., "Antiviral cytotoxic T cell response induced by in vivo priming with a free synthetic peptide," J. Exp. Med. 171:1815-1820, Rockefeller University Press (1990)	
	NPL2	Alexander, J., et al., "Derivation of HLA-A11/K ^b Transgenic Mice. Functional CTL Repertoire and Recognition of Human A11-Restricted CTL Epitopes," <i>J. Immunol.</i> 159:4753-4761, The American Association of Immunologists (November 1997)	
	NPL3	Bertoni, R., et al., "Human Class I Supertypes and CTL Repertoires Extend to Chimpanzees," J. Immunol. 161:4447-4455, American Association of Immunologists (October 1998)	
	NPL4	Bjorkman, P.J., et al., "Structure of the human class I histocompatibility antigen, HLA-A2," <i>Nature 329</i> :506-512, Macmillan Publishers, Ltd. (1987)	
	NPL5	Bjorkman, P.J., et al., "The foreign antigen binding site and T cell recognition regions of class I histocompatibility antigens," <i>Nature 329</i> :512-518, Macmillan Publishers, Ltd. (1987)	
	NPL6	Buus, S., et al., "Autologous Peptides Constitutively Occupy the Antigen Binding Site on Ia," Science 242:1045-1047, American Association for the Advancement of Science (1988)	
	NPL7	Carreno, B.M., et al., "HLA-B37 and HLA-A2.1 molecules bind largely nonoverlapping sets of peptides," Proc. Natl. Acad. Sci. USA 87:3420-3424, National Academy Press (1990)	
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	NPL8	Complex Class I Molecule, H-2Ld _s : Sequence Motif, Quantitative Binding, and	
		Molecular Modeling of the Complex," <i>J. Exp. Med. 176:</i> 1681-1692, Rockefeller University Press (December 1992)	
	NPL9	De Bruijn, M.L.H., et al., "Peptide loading of empty major histocompatibility complex molecules on RMA-S cells allows the induction of primary cytotoxic T lymphocyte responses," Eur. J. Immunol. 21:2963-2970, VCH Verlagsgesellschaft mbH (1991)	

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Substitute fo	or form 144	19/P T O			Con	nplete if Known
					Application Number	09/894,018
FIF	RST SU	IPPL	EMENT	`AL	Filing Date	June 27, 2001
INFO	RMAT	ION	DISCLO	SURE	First Named Inventor	SETTE
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					Examiner Name	Ardin H. Marschel
Sheet	2	of	8		Attorney Docket Number	2060.0320003

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author, title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher	T ²
. '	NPL10	Deres, K., et al., "In vivo priming of virus-specific cytotoxic T lymphocytes with synthetic lipopeptide vaccine," Nature 342:561-564, Macmillan Publishers, Ltd. (1989)	
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	NPL12	DiBrino, M., et al., "Endogenous peptides bound to HLA-A3 possess a specific combination of anchor residues that permit identification of potential antigenic peptides," Proc. Natl. Acad. Sci. USA 90:1508-1512, National Academy Press (February 1993)	
	NPL13	Ding, YH., et al., "Two Human T Cell Receptors Bind in a Similar Diagonal Mode to the HLA-A2/Tax Peptide Complex Using Different TCR Amino Acids," <i>Immunity</i> 8:403-11, Cell Press (April 1998)	
	NPL14	Eisenlohr, L.C., et al., "Flanking Sequences Influence the Presentation of an Endogenously Synthesized Peptide to Cytotoxic T Lymphocytes," <i>J. Exp. Med.</i> 175:481-487, The Rockefeller University Press (February 1992)	
	NPL15	Engelhard, V.H., "Structure of peptides associated with MHC Class I molecules," <i>Curr. Opin. Immunol.</i> 6:13-23, Current Biology, Ltd. (February 1994)	
	NPL16	Falk, K., et al., "Allele-specific motifs revealed by sequencing of self-peptides eluted from MHC molecules," <i>Nature 351</i> :290-296, Macmillan Publishers, Ltd. (1991)	
	NPL17	Falk, K., et al., "MHC peptide motif register. Peptide motifs of HLA-B35 and -B37 molecules," Immunogenetics 38:161-162, Springer-Verlag (April 1993)	
	NPL18	Falk, K., et al., "Allele-specific peptide ligand motifs of HLA-C molecules," Proc. Natl. Acad. Sci. USA 90:12005-12009, National Academy Press (December 1993)	
	NPL19	Falk, K., et al., "Pool sequencing of natural HLA-DR, DQ, and DP ligands reveals detailed peptide motifs, constraints of processing, and general rules," <i>Immunogenetics</i> 39:230-242, Springer-Verlag (February 1994)	

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Signature	 Considered	

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Substitute for form 1449/PTO				Complete if Known		
					Application Number	09/894,018
FIRST SUPPLEMENTAL			,	Filing Date	June 27, 2001	
INFO	RMAT	ION	DISCLOSU	RE	First Named Inventor	SETTE
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Sheet	3	of	8		Attorney Docket Number	2060.0320003

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author, title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher	T ²
	Falk, K., et al., "Peptide motifs of HLA-A1, -A11, -A31, and -A33 molecules," Immunogenetics 40:238-241, Springer-Verlag (July 1994)		
	NPL21	Foon, K.A., "Biological Response Modifiers: The New Immunotherapy," Cancer Res. 49:1621-1639, American Association for Cancer Research (1989)	
	NPL22	Geysen, H.M., et al., "Cognitive Features of Continuous Antigenic Determinants," J. Mol. Recognit. 1:32-41, Heyden & Sons, Ltd. (1988)	
	NPL23	Guo, HC., et al., "Different length peptides bind to HLA-Aw68 similarly at their ends but bulge out in the middle," <i>Nature 360</i> :364-366, Macmillan Publishers, Ltd. (November 1992)	
	NPL24	Henderson, R.A., et al., "HLA-A2.1-Associated Peptides from a Mutant Cell Line: A Second Pathway of Antigen Presentation," Science 255:1264-1266, American Association for the Advancement of Science (March 1992)	
	NPL25	Hill, A., et al., "Characterization of two Epstein-Barr virus epitopes restricted by HLA-B7," Eur. J. Immunol. 25:18-24, VCH Verlagsgesellschaft mbH (January 1995)	
	NPL26	Jameson, S.C., and Bevan, M.J., "Dissection of major histocompatibility complex (MHC) and T cell receptor contact residues in a K ^b -restricted ovalbumin peptide and an assessment of the predictive power of MHC-binding motifs," <i>Eur. J. Immunol.</i> 22:2663-2667, VCH Verlagsgesellschaft mbH (October 1992)	
	NPL27	Jardetzky, T.S., et al., "Identification of self peptides bound to purified HLA-B27," Nature 353:326-329, Macmillan Publishers, Ltd. (1991)	
	NPL28	Kannagi, M., et al., "Target Epitope in the Tax Protein of Human T-Cell Leukemia Virus Type I Recognized by Class I Major Histocompatibility Complex-Restricted Cells," J. Virol. 66:2928-2933, American Society for Microbiology (May 1992)	

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FIR	ST SU	PPL	EMENTAL	Filing Date	June 27, 2001
INFOR	MATI	ON	DISCLOSURE	First Named Inventor	SETTE
STATE	EMEN'	ТВУ	APPLICANT	Art Unit	1631
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Sheet	4	of	8	Attorney Docket Number	2060.0320003

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author, title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher	T ²
	NPL29	Kast, W.M., et al., "Protection against lethal Sendai virus infection by in vivo priming of virus-specific cytotoxic T lymphocytes with a free synthetic peptide," Proc. Natl. Acad. Sci. USA 88:2283-2287, National Academy Press (1991)	
	NPL30	Kast, W.M., et al., "Strict peptide length is not required for the induction of cytotoxic T lymphocyte-mediated antiviral protection by peptide vaccination," Eur. J. Immunol. 23:1189-1192, VCH Verlagsgesellschaft mbH (May 1993)	
	NPL31	Krieger, J.I., et al., "Single amino acid changes in DR and antigen define residues critical for peptide-MHC binding and T cell recognition," J. Immunol. 146:2331-2340, American Association of Immunologists (1991)	
	NPL32	Lipford, G.B., et al., "Primary in Vivo Responses to Ovalbumin. Probing the Predictive Value of the K ^b Binding Motif," J. Immunol. 150:1212-1222, The American Association of Immunologists (February 1993)	
	NPL33	Maryanski, J.L., et al., "Synthetic peptides as antigens and competitors in recognition by H-2-restricted cytolytic T cells specific for HLA," J. Exp. Med. 167:1391-1405, Rockefeller University Press (1988)	
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	NPL35	Morrison, J., et al., "Identification of the nonamer peptide from influenza A matrix protein and the role of pockets of HLA-A2 in its recognition by cytotoxic T lymphocytes," Eur. J. Immunol. 22:903-907, VCH Verlagsgesellschaft mbH (April 1992)	
	NPL36	Niedermann, G., et al., "The proteolytic fragments generated by vertebrate proteosomes: Structural relationships to major histocompatibility complex class I binding peptides," Proc. Natl. Acad. Sci. USA 93:8572-8577, National Academy Press (August 1996)	
_	NPL37	Ochoa-Garay, J., et al., "The ability of peptides to induce cytotoxic T cells in vitro does not strongly correlate with their affinity for the H-2L ^d molecule: implications for vaccine design and immunotherapy," Mol. Immunol. 34:273-281, Elsevier Science, Ltd. (February 1997)	

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Signature	Considered	

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Substitute fo	r form 144	9/PTO		Con	nplete if Known
				Application Number	09/894,018
FIR	RST SU	IPPL	EMENTAL	Filing Date	June 27, 2001
INFOR	RMAT	ION	DISCLOSURE	First Named Inventor	SETTE
			APPLICANT		1631
~				Examiner Name	Ardin H. Marschel
Sheet	5	of	8	Attorney Docket Number	2060.0320003

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author, title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher	T ²
	NPL38	Pamer, E.G., et al., "Precise prediction of a dominant class I MHC-restricted epitome of Listeria monocytogenes," Nature 353:852-855, Macmillan Publishers, Ltd. (1991)	
	NPL39	Parham, P., et al., "The Origins of HLA-A,B,C Polymorphism," <i>Immunol. Rev.</i> 143:141-180, Munksgaard (February 1995)	
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	NPL41	Parker, K.C., et al., "Sequence motifs important for peptide binding to the human MHC class I molecule, HLA-A2," <i>J. Immunol.</i> 149:3580-3587, American Association of Immunologists (December 1992)	
	NPL42	Rammensee, HG., et al., "Peptides Naturally Presented by MHC Class I Molecules," Annu. Rev. Immunol. 11:213-244, Annual Reviews, Inc. (January 1993)	
5	NPL43	Reddehase, M.J., et al., "A pentapeptide as minimal antigenic determinant for MHC class I-restricted T lymphocytes," <i>Nature 337</i> :651-653, Macmillan Publishers, Ltd. (1989)	
	NPL44	Romero, P., et al., "H-2K ^d -restricted Antigenic Peptides Share a Simple Binding Motif," J. Exp. Med. 174:603-612, Rockefeller University Press (1991)	
	NPL45	Rothbard, J.B., "Major histocompatibility complex-peptide interactions," Curr. Opin. Immunol. 2:99-105, Current Biology, Ltd. (1989)	
	NPL46	Rötzschke, O., et al., "Isolation and analysis of naturally processed viral peptides as recognized by cytotoxic T cells," <i>Nature 348</i> :252-254, Macmillan Publishers, Ltd. (1990)	
	NPL47	Rötzschke, O., et al., "Characterization of Naturally Occurring Minor Histocompatibility Peptides Including H-4 and H-Y," Science 249:283-287, American Association for the Advancement of Science (1990)	

Examiner		Date	
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				Application Number	09/894,018
FIRST SUPPLEMENTAL INFORMATION DISCLOSURE				Filing Date	June 27, 2001
				First Named Inventor	SETTE
STAT	EMEN	ТВ	APPLICANT	Art Unit	1631
				Examiner Name	Ardin H. Marschel
Sheet	6	of	8	Attorney Docket Number	2060.0320003

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author, title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher	T ²
	NPL48	Rötzschke, O., and Falk, K., "Naturally-occurring peptide antigens derived from the MHC class-I-restricted processing pathway," <i>Immunol. Today 12</i> :447-455, Elsevier Science Publishers, Ltd. (1991)	
	NPL49	Rötzschke, O., et al., "Peptide motifs of closely related HLA class I molecules encompass substantial differences," Eur. J. Immunol. 22:2453-2456, VCH Verlagsgesellschaft mbH (September 1992)	
.=	NPL50	Rötzschke, O., and Falk, K., "Origin, structure and motifs of naturally processed MHC class II ligands," <i>Curr. Opin. Immunol.</i> 6:45-51, Current Biology, Ltd. (February 1994)	
	NPL51	Rudinger, J., "Characteristics of the amino acids as components of a peptide hormone sequence," in <i>Peptide Hormones</i> , Parsons, J.A., ed., University Park Press, Baltimore, MD, pp.1-7 (1976)	
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	NPL54	Sette, A., et al., "Prediction of major histocompatibility complex binding regions of protein antigens by sequence pattern analysis," <i>Proc. Natl. Acad. Sci. USA 86</i> :3296-3300, National Academy Press (1989)	
	NPL55	Sette, A., et al., "Random association between the peptide repertoire of A2.1 class I and several different DR class II molecules," <i>J. Immunol.</i> 147:3893-3900, The American Association of Immunologists (1991)	
	NPL56	Sette, A., et al., "The Relationship Between Class I Binding Affinity and Immunogenicity of Potential Cytotoxic T Cell Epitopes," J. Immunol. 153:5586-5592, The American Association of Immunologists (December 1994)	
	NPL57	Sherman, L.A., et al., "Extracellular Processing of Peptide Antigens That Bind Class I Major Histocompatibility Molecules," J. Exp. Med. 175:1221-1226, The Rockefeller University Press (May 1992)	

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INFO	RMAT	ION	DISCLOSURE	First Named Inventor	SETTE
STAT	EMEN	T BY	APPLICANT	Art Unit	1631
				Examiner Name	Ardin H. Marschel
Sheet	7	of	8	Attorney Docket Number	2060.0320003

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author, title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher	T ²
	NPL58	Shimojo, N., et al., "Specificity of peptide binding by the HLA-A2.1 molecule," J. Immunol. 143:2939-2947, The American Association of Immunologists (1989)	
	NPL59	Sidney, J., et al., "Several HLA Alleles Share Overlapping Peptide Specificities," J. Immunol. 154:247-259, The American Association of Immunologists (January 1995)	
	NPL60	Wentworth, P.A., et al., "Differences and similarities in the A2.1-restricted cytotoxic T cell repertoire in humans and human leukocyte antigen-transgenic mice," Eur. J. Immunol. 26:97-101,VCH Verlagsgesellschaft mbH (January 1996)	
	NPL61	Whitton, J.L., et al., "Molecular Analyses of a Five-Amino-Acid Cytotoxic T-Lymphocyte (CTL) Epitope: an Immunodominant Region Which Induces Nonreciprocal CTL Cross-Reactivity," J. Virol. 63:4303-4310, American Society for Microbiology (1989)	
	NPL62	Yewdell, J.W., and Bennink, J.R., "Cell Biology of Antigen Processing and Presentation to Major Histocompatibility Complex Class I Molecule-Restricted T Lymphocytes," <i>Adv. Immunol.</i> 52:1-123, Academic Press (July 1992)	
	NPL63	York, I.A., and Rock, K.L., "Antigen processing and presentation by the class I major histocompatibility complex," <i>Annu. Rev. Immunol. 14</i> :369-396, Annual Reviews, Inc. (April 1996)	
	NPL64	Zhang, Q-J., et al., "An HLA-A11-specific motif in nonamer peptides derived from viral and cellular proteins," <i>Proc. Natl. Acad. Sci. USA 90</i> :2217-2221, National Academy Press (March 1993)	
_	NPL65	Parker, K.C., et al., "Scheme for Ranking Potential HLA-A2 Binding Peptides Based on Independent Binding of Individual Peptide Side-Chains," J. Immunol. 152:163-175, The American Association of Immunologists (January 1994)	
:	NPL66	Dialog File 351, Accession No. 7180926, Derwent WPI English language abstract for EP 0 226 513 (Document AM1)	
	NPL67	Dialog File 351, Accession No. 9263567, Derwent WPI English language abstract for WO 92/21033 (Document AP1)	

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Substitute for form 1449/PTO Complete if Known 09/894,018 Application Number FIRST SUPPLEMENTAL Filing Date June 27, 2001 INFORMATION DISCLOSURE First Named Inventor **SETTE** Art Unit 1631 STATEMENT BY APPLICANT Examiner Name Ardin H. Marschel Attorney Docket Number 2060.0320003 Sheet 8 of 8

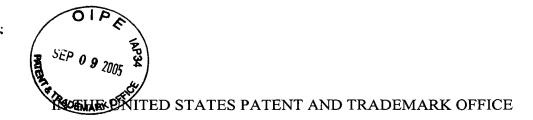
	NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*						
	NPL68	Dialog File 351, Accession No. 9888606, Derwent WPI English language abstract for WO 94/11738 (Document AN2)				
	NPL69	U.S. Patent Application No. 08/349,177, Grey et al., filed December 2, 1994 (NOT PUBLISHED)				
	NPL70	U.S. Patent Application No. 09/017,735, Grey et al., filed February 3, 1998 (NOT PUBLISHED)				
	NPL71	U.S. Patent Application No. 09/189,702, Sette et al., filed December 10, 1998 (NOT PUBLISHED)				
	NPL72	U.S. Patent Application No. 10/030,014, Sette et al., filed July 24, 2002 (NOT PUBLISHED)				

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Signature	Considered	

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In re application of:

SETTE et al.

Appl. No.: 09/894,018

Filed: June 27, 2001

For:

Method and System for

Optimizing Minigenes and Peptides Encoded Thereby Confirmation No.: 7107

Art Unit:

1631

Examiner:

Ardin H. Marschel

Atty. Docket: 2060.0320003/EKS/PAC

Second Supplemental Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Sir:

Mail Stop Amendment

Listed on accompanying Forms PTO/SB/08a and PTO/SB/08b are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of all U.S. Patents and U.S. Patent Application Publications, cited on Form PTO/SB/08a as documents AA100-AJ100, AA101-AJ101 and AA102-AC102, are not provided in accordance with 37 C.F.R. § 1.98(a)(2).

A Copy of document NPL149 cited on Form PTO/SB/08b is not provided in accordance with the U.S. Patent and Trademark Office OG notice of October 19, 2004, which states: "the requirement in 37 C.F.R. § 1.98(a)(2)(iii) for a legible copy of the specification, including the claims, and drawings of each cited pending U.S. patent application (or portion of the application which caused it to be listed) is sua sponte waived where the cited pending application is stored in the USPTO's IFW system."

The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to this application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Forms PTO/SB/08a and PTO/SB/08b based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Forms PTO/SB/08a and PTO/SB/08b, and indicate in the official file wrapper of this patent application that the documents have been considered. The U.S. Patent and Trademark Office is

hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Eric K. Steffe

Attorney for Applicants Registration No. 36,688

Date:_____/

1100 New York Avenue, N.W. Washington, D.C. 20005-3934

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STATEMENT BY APPLICANT

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Substitute for form 1449A/F

Sheet 1 of

	nplete If Known
Application Number	09/894,018
Filing Date	June 27, 2001
First Named Inventor	SETTE
Art Unit	1631
Examiner Name	Ardin H. Marschel
Attorney Docket Number	2060 0320003/EKS/PAC

Exami ner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of	Pages, Columns, Lines, Where Relevant Passages	
Initials*	No. ¹	Number-Kind Code ^{2 (If Known)}	MM-DD-YYYY	Cited Document	or Relevant Figures Appear	
	AA100	4,235,877	11/25/1980	Fullerton		
	AB100	4,487,715	12/11/1984	Nitecki et al.		
	AC100	4,599,230	07/08/1986	Milich et al.		
	AD100	4,837,028	06/06/1989	Allen		
	AE100	5,013,548	05/07/1991	Haynes et al.		
	AF100	5,128,319	07/07/1992	Arlinghaus		
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	AD101	2003/0143672	07/31/2003	Tangri et al.		
	AE101	2003/0216342	11/20/2003	Fikes et al.		
	AF101	2003/0216343	11/20/2003	Fikes et al.		
	AG101	2004/0096445	05/20/2004	Sidney et al.		

			FOREIGN PATENT DOC	UMENTS		
Examin er Initials*	Cite No.1	Foreign Patent Document Country Code ⁴ Kind Code ⁵ (in known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	AL100	EP 0 378 881	06/09/1993	Eniricerche S.p.A.		
	AM100	EP 0 429 816	06/05/1991	F. Hoffmann-La Roche AG		
	AN100	EP 0 433 242	06/19/1991	Fondazione Andrea Cesalpino		
	AO100	WO 93/03764	03/04/1993	Cytel Corporation		
	AP100	WO 94/20127	09/15/1994	Cytel Corporation		
	AQ100	WO 95/07707	03/23/1995	Cytel Corporation		

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Complete If Known Application Number 09/894,018 Filing Date June 27, 2001 First Named Inventor SETTE Art Unit 1631 Examiner Nāmē Ardin H. Marschel Attorney Docket Number 2060.0320003/EKS/PAC

Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (If} Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures
	AH101	2004/0157273	08/12/2004	Sidney et al.	Appear
	Al101	2005/0049197	03/03/2005	Sette et al.	
	AJ101	4,599,231	07/08/1986	Milich et al.	
	AA102	5,633,234	05/24/1997	August et al.	
	AB102	2002/0119127	08/29/2002	Sette et al.	
	AC102	2004/0248113	12/09/2004	Sette et al.	
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Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ⁴ Kind Code ⁵ (in known)	Publication Date MM-DD-YYYY	Name of Patents Applicant of Cite Document		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
•	AM101	WO 96/22067	07/25/1996	United Biome	dical		
	AN101	WO 97/41440	11/06/1997	Rijksuniversit Leiden and Se Investments			
	AO101	WO 97/34617	09/25/1997	Cytel Corporation			
	AP101	WO 01/00225	01/04/2001	Epimmune In	c.		
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				Filing Date	June 27, 2001	
			ISCLOSURE APPLICANT	First Named Inventor	SETTE	
317				Art Unit	1631	
	(Use as	many sheets as	s necessary)	Examiner Name	Ardin H. Marschel	
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				Complete If Known		
	for form 1449B		LEMENTAL	Application Number	09/894,018	
_			DISCLOSURE	Filing Date	June 27, 2001	
		-	APPLICANT	First Named Inventor	SETTE	
				Art Unit	1631	
(Use as many sheets as necessary)				Examiner Name	Ardin H. Marschel	
Sheet	2	of	9	Attorney Docket Number	2060.0320003/EKS/PAC	

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published	T ²			
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		NON PATENT LITERATURE DOCUMENTS	
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		NON PATENT LITERATURE DOCUMENTS	
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	NPL116	Panina-Bordignon, P., et al., "Universally immunogenic T cell eptiopes: promiscuous binding to human MHC class II and promiscuous recognition by T cells," Eur. J. Immunol. 19:2237-2242, VCH Verlagsgesellschaft mbH (1989)	
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				Com	plete If Known
	for form 1449B		LEMENTAL	Application Number	09/894,018
			ISCLOSURE	Filing Date	June 27, 2001
			APPLICANT	First Named Inventor	SETTE
				Art Unit	1631
	(Use as	many sheets a	s necessary)	Examiner Name	Ardin H. Marschel
Sheet	8	of	9	Attorney Docket Number	2060.0320003/EKS/PAC

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published	T ²
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				Complete If Known		
Substitute f	for form 1449E	3/PTO			09/894,018	
	ECONI	CHIDD	CMENTAL	Application Number		
SECOND SUPPLEMENTAL					June 27, 2001	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT					SETTE	
				First Named Inventor		
					1631	
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	(USE as	s many sneets a	s necessary)		Ardin H. Marschel	
				Examiner Name		
Sheet	9	of	٥		2060.0320003/EKS/PAC	
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